

SECRET

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REFERENCE:

ATTACHMENT TO L-1894
26 SEPTEMBER 1966
PAGE 1

AIR WARNING RADAR FACILITY
PHUC YEN AREA, NORTH VIETNAM
2113N 10553E

1. SIGNIFICANCE:

THIS BRIEFING BOARD PORTRAYS AN AIR WARNING FACILITY NEAR PHUC
YEN AIRFIELD [REDACTED] IN NORTH VIETNAM.

2. LOCATION:

THE AIR WARNING FACILITY IS LOCATED 4.5 NM EAST-NORTHEAST OF PHUC
YEN AIRFIELD AND 10 NM EAST OF PHUC YEN AT UTM WJ918479.

3. REMARKS:

BIG BAR A IS A MOBILE V-BEAM RADAR EMPLOYING TWO TRUNCATED
PARABOLOID MESH REFLECTORS SIMILAR TO THOSE ON BAR LOCK. IT IS
OTHERWISE, AS ORIGINALLY OBSERVED, IDENTICAL TO BIG MESH AND EMPLOYS
THE SAME ASSOCIATED TRUCKS.

IT EMPLOYS A SEPARATE IFF INTERROGATOR, USUALLY WITCH FOUR OR
WITCH FIVE, BUT IS OFTEN NOT CO-LOCATED WITH OTHER RADARS. IT IS
SOMETIMES, HOWEVER, SEEN IN COMPANY WITH KNIFE REST AND A NODDING
HEIGHTFINDER.

BIG BAR B IS PHYSICALLY SIMILAR TO BIG BAR A AND USES THE SAME
TRUCKS. THE ABSENCE OF END BOX MAY BE RELATED TO SECURITY, SINCE THE
DEPLOYMENT OF BIG BAR B HAS BEEN PRIMARILY IN SOUTH EAST ASIA. THE
PRINCIPAL DIFFERENCE FROM BIG BAR A IS OF COURSE IN THE B'S USE OF

NGA review(s)
completed.

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GROUP 1
Excluded from automatic
downgrading and declassification

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THE ANTENNA DIMENSIONS ON BOTH BIG BAR A AND B ARE [REDACTED] 25X1FT, AND BOTH HAVE A CAPABILITY OF 160-190 NM AGAINST MEDIUM BOMBERS
AT 50,000 FT.

SIDE NET IS A NODDING HEIGHTFINDER MOUNTED ON THE SIDE OF A
TRAILER RESEMBLING THOSE CARRYING THE ROCK CAKE/STONE CAKE/SPONGE
CAKE FAMILY EXCEPT THAT PROBABLE AIR COOLING TRUNKING IS VISIBLE ON
EACH END. THE ELLIPTICAL PARABOLOID REFLECTOR IS APPROXIMATELY [REDACTED] 25X1
[REDACTED] BY 10 FEET WIDE AND IS PIVOTED ON A HORIZONTAL SHAFT WHICH
IS ABOVE THE VAN. THE FEED IS A WAVE GUIDE AND HORN, SUPPORTED ON
FOUR STAYS TO THE REFLECTOR SO THAT IT NODS WITH IT. THE REFLECTOR
IS CONSTRUCTED WITH A VERY LIGHT FRAME HAVING FINE HORIZONTAL WIRE
MESH. THERE ARE SEVEN MAJOR HORIZONTAL RIBS, AND A PLATE WHICH IS
SYMMETRICALLY LOCATED RELATIVE TO THE CENTER OF THE REFLECTOR.

OF EXTREME IMPORTANCE IS THE LOWER PULSE RATE DETECTED ON THIS
EQUIPMENT SINCE IT PROVIDES A POTENTIAL OF MUCH IMPROVED UNAMBIGUOUS
RANGE (DOUBLE) OVER THE OLDER SEARCH AND HEIGHTFINDING RADARS WHICH
WERE LIMITED TO THE REGION OF ABOUT 200 NM BY PULSE RATE. THIS
EQUIPMENT WAS OBSERVED INITIALLY IN LATE 1962, AND IS BELIEVED TO BE
ASSOCIATED WITH LONG RANGE EW EQUIPMENT.

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4. MISSION READOUT:

[REDACTED] REVEALS ONE BIG BAR AIR
WARNING RADAR, ONE SIDE NET HEIGHT FINDER RADAR, ONE ELECTRONIC VAN
TRUCK, FIVE ASSOCIATED VAN TRAILERS, AND ONE CARGO TRAILER.

[REDACTED]
UTM COORDINATES ARE TAKEN FROM AMS SERIES L701, SHEET 6174 I.

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AIR WARNING RADAR FACILITY
PHUC YEN AREA, NORTH VIETNAM
21-13N 105-53E



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20X ENLARGEMENT
NPIC L-1894 (9/66)

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